

Title (en)
UNDERWATER WIRELESS COMMUNICATION NETWORK

Title (de)
DRAHTLOSES UNTERWASSERKOMMUNIKATIONSNETZWERK

Title (fr)
RÉSEAU DE COMMUNICATION SANS FIL SOUS-MARIN

Publication
EP 4150797 A1 20230322 (EN)

Application
EP 21726463 A 20210512

Priority
• US 202063023458 P 20200512
• IB 2021054060 W 20210512

Abstract (en)
[origin: WO2021229471A1] An underwater wireless communication network includes a first buoyant platform, including a radio-frequency communication transceiver and a wired communication transceiver, floating at a surface of a body of water. A first underwater sensor node is coupled to the first buoyant platform by at least one wire over which the first buoyant platform and the first underwater sensor node communicate. The first underwater sensor includes a wired communication transceiver to communicate with the first buoyant platform over the at least one wire. The first buoyant platform or the first underwater sensor node includes a first ambient energy collector configured to power the first buoyant platform or the first underwater sensor node. A second underwater sensor node, arranged under the body of water, includes a second ambient energy collector configured to power the second underwater sensor node. The first and second underwater sensor nodes each comprise a sensor, an optical communication transceiver, and an acoustic positioning system.

IPC 8 full level
H04B 10/80 (2013.01); **H04B 13/02** (2006.01); **H04W 84/18** (2009.01)

CPC (source: EP US)
G01S 15/88 (2013.01 - US); **H04B 10/27** (2013.01 - US); **H04B 10/80** (2013.01 - EP); **H04B 10/807** (2013.01 - US); **H04B 13/02** (2013.01 - EP); **H04B 2210/006** (2013.01 - US); **H04W 84/18** (2013.01 - EP)

Citation (search report)
See references of WO 2021229471A1

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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